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PCDHGA5 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18382a

Product Information

Application	WB, E
Primary Accession	Q9Y5G8
Other Accession	NP_061741.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB38324
Calculated MW	100935
Antigen Region	254-280

Additional Information

Gene ID	56110
Other Names	Protocadherin gamma-A5, PCDH-gamma-A5, PCDHGA5
Target/Specificity	This PCDHGA5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 254-280 amino acids from the N-terminal region of human PCDHGA5.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PCDHGA5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PCDHGA5
Function	Potential calcium-dependent cell-adhesion protein. May be involved in the establishment and maintenance of specific neuronal connections in the brain.
Cellular Location	Cell membrane; Single-pass type I membrane protein

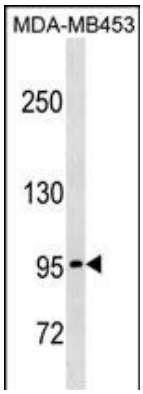
Background

This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been described for the gamma cluster genes.

References

Wu, Q., et al. Genome Res. 11(3):389-404(2001)
Nollet, F., et al. J. Mol. Biol. 299(3):551-572(2000)
Yagi, T., et al. Genes Dev. 14(10):1169-1180(2000)
Wu, Q., et al. Proc. Natl. Acad. Sci. U.S.A. 97(7):3124-3129(2000)
Wu, Q., et al. Cell 97(6):779-790(1999)

Images



PCDHGA5 Antibody (N-term) (Cat. #AP18382a) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the PCDHGA5 Antibody detected the PCDHGA5 protein (arrow).